

## SEQUENCE LISTING

<110> BLAKELY, RANDY D.  
 APPARSUNDARAM, SUBRAMANIAM  
 FERGUSON, SHAWN

<120> HUMAN AND MOUSE CHOLINE TRANSPORTER cDNA

<130> VBLT:008US

<140> 09/911,077

<141> 2001-07-23

<160> 27

<170> PatentIn Ver. 2.1

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Ser Leu Val Met Gly Gly Leu Leu Phe Ala Lys Lys Met Arg Glu Glu	
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Val	Val	Pro	Leu	Val	Phe	Gln	Tyr	Leu	Thr	Pro	Arg	Trp	Val	Ala	Phe
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Ser	Val	Leu	Ser	Ala	Ala	Ser	Met	Phe	Ala	His	Asn	Ile	Trp	Lys	Leu
		355					360					365			
Thr	Ile	Arg	Pro	His	Ala	Ser	Glu	Lys	Glu	Val	Ile	Ile	Val	Met	Arg
	370					375					380				
Ile	Ala	Ile	Ile	Cys	Val	Gly	Ile	Met	Ala	Thr	Ile	Met	Ala	Leu	Thr
	385				390					395					400
Ile	Gln	Ser	Ile	Tyr	Gly	Leu	Trp	Tyr	Leu	Cys	Ala	Asp	Leu	Val	Tyr
			405						410					415	
Val	Ile	Leu	Phe	Pro	Gln	Leu	Leu	Cys	Val	Val	Tyr	Met	Pro	Arg	Ser
		420						425					430		
Asn	Thr	Tyr	Gly	Ser	Leu	Ala	Gly	Tyr	Ala	Val	Gly	Leu	Val	Leu	Arg
		435					440					445			
Leu	Ile	Gly	Gly	Glu	Pro	Leu	Val	Ser	Leu	Pro	Ala	Phe	Phe	His	Tyr
	450					455					460				
Pro	Met	Tyr	Thr	Asp	Gly	Val	Gln	Tyr	Phe	Pro	Phe	Arg	Thr	Thr	Ala
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Met Leu Ser Ser Met Ala Thr Ile Tyr Ile Val Ser Ile Gln Ser Glu  
 485 490 495  
 Lys Leu Phe Lys Ser Gly Arg Leu Ser Pro Glu Trp Asp Val Met Gly  
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 Cys Val Val Asn Ile Pro Ile Asp His Val Pro Leu Pro Ser Asp Val  
 515 520 525  
 Ser Phe Ala Val Ser Ser Glu Thr Leu Asn Met Lys Ala Pro Asn Gly  
 530 535 540  
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 Leu Leu His Pro Tyr Ser Asp Gln Ser Tyr Tyr Ser Thr Asn Ser Asn  
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<211> 1813

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

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 Ile Val Phe Tyr Leu Leu Ile Leu Leu Val Gly Ile Trp Ala Ala Trp  
 15 20 25  
 aga acc aaa aac agt ggc agc gca gaa gag cgc agc gaa gcc atc ata 147  
 Arg Thr Lys Asn Ser Gly Ser Ala Glu Glu Arg Ser Glu Ala Ile Ile  
 30 35 40  
 gtt ggt ggc cga gat att ggt tta ttg gtt ggt gga ttt acc atg aca 195  
 Val Gly Gly Arg Asp Ile Gly Leu Leu Val Gly Gly Phe Thr Met Thr  
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 gct acc tgg gtc gga gga ggg tat atc aat ggc aca gct gaa gca gtt 243  
 Ala Thr Trp Val Gly Gly Gly Tyr Ile Asn Gly Thr Ala Glu Ala Val  
 60 65 70 75  
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 Tyr Val Pro Gly Tyr Gly Leu Ala Trp Ala Gln Ala Pro Ile Gly Tyr  
 80 85 90  
 tct ctt agt ctg att tta ggt ggc ctg ttc ttt gca aaa cct atg cgt 339  
 Ser Leu Ser Leu Ile Leu Gly Gly Leu Phe Phe Ala Lys Pro Met Arg  
 95 100 105  
 tca aag ggg tat gtg acc atg tta gac ccg ttt cag caa atc tat gga 387  
 Ser Lys Gly Tyr Val Thr Met Leu Asp Pro Phe Gln Gln Ile Tyr Gly  
 110 115 120



aaa cgc atg ggc gga ctc ctg ttt att cct gca ctg atg gga gaa atg	435
Lys Arg Met Gly Gly Leu Leu Phe Ile Pro Ala Leu Met Gly Glu Met	
125 130 135	
ttc tgg gct gca gca att ttc tct gct ttg gga gcc acc atc agc gtg	483
Phe Trp Ala Ala Ala Ile Phe Ser Ala Leu Gly Ala Thr Ile Ser Val	
140 145 150 155	
atc atc gat gtg gat atg cac att tct gtc atc atc tct gca ctc att	531
Ile Ile Asp Val Asp Met His Ile Ser Val Ile Ile Ser Ala Leu Ile	
160 165 170	
gcc act ctg tac aca ctg gtg gga ggg ctc tat tct gtg gcc tac act	579
Ala Thr Leu Tyr Thr Leu Val Gly Gly Leu Tyr Ser Val Ala Tyr Thr	
175 180 185	
gat gtc gtt cag ctc ttt tgc att ttt gta ggg ctg tgg atc agc gtc	627
Asp Val Val Gln Leu Phe Cys Ile Phe Val Gly Leu Trp Ile Ser Val	
190 195 200	
ccc ttt gca ttg tca cat cct gca gtc gca gac atc ggg ttc act gct	675
Pro Phe Ala Leu Ser His Pro Ala Val Ala Asp Ile Gly Phe Thr Ala	
205 210 215	
gtg cat gcc aaa tac caa aag ccg tgg ctg gga act gtt gac tca tct	723
Val His Ala Lys Tyr Gln Lys Pro Trp Leu Gly Thr Val Asp Ser Ser	
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gaa gtc tac tct tgg ctt gat agt ttt ctg ttg ttg atg ctg ggt gga	771
Glu Val Tyr Ser Trp Leu Asp Ser Phe Leu Leu Leu Met Leu Gly Gly	
240 245 250	
atc cca tgg caa gca tac ttt cag agg gtt ctc tct tct tcc tca gcc	819
Ile Pro Trp Gln Ala Tyr Phe Gln Arg Val Leu Ser Ser Ser Ser Ala	
255 260 265	
acc tat gct caa gtg ctg tcc ttc ctg gca gct ttc ggg tgc ctg gtg	867
Thr Tyr Ala Gln Val Leu Ser Phe Leu Ala Ala Phe Gly Cys Leu Val	
270 275 280	
atg gcc atc cca gcc ata ctc att ggg gcc att gga gca tca aca gac	915
Met Ala Ile Pro Ala Ile Leu Ile Gly Ala Ile Gly Ala Ser Thr Asp	
285 290 295	
tgg aac cag act gca tat ggg ctt cca gat ccc aag act aca gaa gag	963
Trp Asn Gln Thr Ala Tyr Gly Leu Pro Asp Pro Lys Thr Thr Glu Glu	
300 305 310 315	
gca gac atg att tta cca att gtt ctg cag tat ctc tgc cct gtg tat	1011
Ala Asp Met Ile Leu Pro Ile Val Leu Gln Tyr Leu Cys Pro Val Tyr	
320 325 330	
att tct ttc ttt ggt ctt ggt gca gtt tct gct gct gtt atg tca tca	1059
Ile Ser Phe Phe Gly Leu Gly Ala Val Ser Ala Ala Val Met Ser Ser	
335 340 345	
gca gat tct tcc atc ttg tca gca agt tcc atg ttt gca cgg aac atc	1107

Ala Asp Ser Ser Ile Leu Ser Ala Ser Ser Met Phe Ala Arg Asn Ile	
350 355 360	
tac cag ctt tcc ttc aga caa aat gct tgc gac aaa gaa atc gtt tgg	1155
Tyr Gln Leu Ser Phe Arg Gln Asn Ala Ser Asp Lys Glu Ile Val Trp	
365 370 375	
ggt atg cga atc aca gtg ttt gtg ttt gga gca tct gca aca gcc atg	1203
Val Met Arg Ile Thr Val Phe Val Phe Gly Ala Ser Ala Thr Ala Met	
380 385 390 395	
gcc ttg ctg acg aaa act gtg tat ggg ctc tgg tac ctc agt tct gac	1251
Ala Leu Leu Thr Lys Thr Val Tyr Gly Leu Trp Tyr Leu Ser Ser Asp	
400 405 410	
ctt gtt tac atc gtt atc ttc ccc cag ctg ctt tgt gta ctc ttt gtt	1299
Leu Val Tyr Ile Val Ile Phe Pro Gln Leu Leu Cys Val Leu Phe Val	
415 420 425	
aag gga acc aac acc tat ggg gcc gtg gca ggt tat gtt tct ggc ctc	1347
Lys Gly Thr Asn Thr Tyr Gly Ala Val Ala Gly Tyr Val Ser Gly Leu	
430 435 440	
ttc ctg aga ata act gga ggg gag cca tat ctg tat ctt cag ccc ttg	1395
Phe Leu Arg Ile Thr Gly Gly Glu Pro Tyr Leu Tyr Leu Gln Pro Leu	
445 450 455	
atc ttc tac cct ggc tat tac cct gat gat aat ggt ata tat aat cag	1443
Ile Phe Tyr Pro Gly Tyr Tyr Pro Asp Asp Asn Gly Ile Tyr Asn Gln	
460 465 470 475	
aaa ttt cca ttt aaa aca ctt gcc atg gtt aca tca ttc tta acc aac	1491
Lys Phe Pro Phe Lys Thr Leu Ala Met Val Thr Ser Phe Leu Thr Asn	
480 485 490	
att tgc atc tcc tat cta gcc aag tat cta ttt gaa agt gga acc ttg	1539
Ile Cys Ile Ser Tyr Leu Ala Lys Tyr Leu Phe Glu Ser Gly Thr Leu	
495 500 505	
cca cct aaa tta gat gta ttt gat gct gtt gtt gca aga cac agt gaa	1587
Pro Pro Lys Leu Asp Val Phe Asp Ala Val Val Ala Arg His Ser Glu	
510 515 520	
gaa aac atg gat aag aca att ctt gtc aaa aat gaa aat att aaa tta	1635
Glu Asn Met Asp Lys Thr Ile Leu Val Lys Asn Glu Asn Ile Lys Leu	
525 530 535	
gat gaa ctt gca ctt gtg aag cca cga cag agc atg acc ctc agc tca	1683
Asp Glu Leu Ala Leu Val Lys Pro Arg Gln Ser Met Thr Leu Ser Ser	
540 545 550 555	
act ttc acc aat aaa gag gcc ttc ctt gat gtt gat tcc agt cca gaa	1731
Thr Phe Thr Asn Lys Glu Ala Phe Leu Asp Val Asp Ser Ser Pro Glu	
560 565 570	
ggg tct ggg act gaa gat aat tta cag tga ccccatctaa ataaaatact	1781
Gly Ser Gly Thr Glu Asp Asn Leu Gln	

575

580

gcttttgcaa acagaacact gtaatagggt ag

1813

&lt;210&gt; 10

&lt;211&gt; 580

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 10

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Gly	Ser	Ala	Glu	Glu	Arg	Ser	Glu	Ala	Ile	Ile	Val	Gly	Gly	Arg	Asp
		35					40					45			
Ile	Gly	Leu	Leu	Val	Gly	Gly	Phe	Thr	Met	Thr	Ala	Thr	Trp	Val	Gly
	50					55					60				
Gly	Gly	Tyr	Ile	Asn	Gly	Thr	Ala	Glu	Ala	Val	Tyr	Val	Pro	Gly	Tyr
	65			70						75					80
Gly	Leu	Ala	Trp	Ala	Gln	Ala	Pro	Ile	Gly	Tyr	Ser	Leu	Ser	Leu	Ile
				85					90					95	
Leu	Gly	Gly	Leu	Phe	Phe	Ala	Lys	Pro	Met	Arg	Ser	Lys	Gly	Tyr	Val
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Thr	Met	Leu	Asp	Pro	Phe	Gln	Gln	Ile	Tyr	Gly	Lys	Arg	Met	Gly	Gly
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	130					135					140				
Ile	Phe	Ser	Ala	Leu	Gly	Ala	Thr	Ile	Ser	Val	Ile	Ile	Asp	Val	Asp
	145				150					155				160	
Met	His	Ile	Ser	Val	Ile	Ile	Ser	Ala	Leu	Ile	Ala	Thr	Leu	Tyr	Thr
				165					170					175	
Leu	Val	Gly	Gly	Leu	Tyr	Ser	Val	Ala	Tyr	Thr	Asp	Val	Val	Gln	Leu
			180					185					190		
Phe	Cys	Ile	Phe	Val	Gly	Leu	Trp	Ile	Ser	Val	Pro	Phe	Ala	Leu	Ser
	195						200					205			
His	Pro	Ala	Val	Ala	Asp	Ile	Gly	Phe	Thr	Ala	Val	His	Ala	Lys	Tyr
	210					215					220				
Gln	Lys	Pro	Trp	Leu	Gly	Thr	Val	Asp	Ser	Ser	Glu	Val	Tyr	Ser	Trp
	225				230					235				240	
Leu	Asp	Ser	Phe	Leu	Leu	Leu	Met	Leu	Gly	Gly	Ile	Pro	Trp	Gln	Ala
				245					250					255	
Tyr	Phe	Gln	Arg	Val	Leu	Ser	Ser	Ser	Ser	Ala	Thr	Tyr	Ala	Gln	Val
			260					265					270		
Leu	Ser	Phe	Leu	Ala	Ala	Phe	Gly	Cys	Leu	Val	Met	Ala	Ile	Pro	Ala
		275					280					285			
Ile	Leu	Ile	Gly	Ala	Ile	Gly	Ala	Ser	Thr	Asp	Trp	Asn	Gln	Thr	Ala
	290					295					300				
Tyr	Gly	Leu	Pro	Asp	Pro	Lys	Thr	Thr	Glu	Glu	Ala	Asp	Met	Ile	Leu
	305				310					315				320	
Pro	Ile	Val	Leu	Gln	Tyr	Leu	Cys	Pro	Val	Tyr	Ile	Ser	Phe	Phe	Gly
				325					330				335		
Leu	Gly	Ala	Val	Ser	Ala	Ala	Val	Met	Ser	Ser	Ala	Asp	Ser	Ser	Ile
			340					345				350			
Leu	Ser	Ala	Ser	Ser	Met	Phe	Ala	Arg	Asn	Ile	Tyr	Gln	Leu	Ser	Phe
	355						360					365			

Arg Gln Asn Ala Ser Asp Lys Glu Ile Val Trp Val Met Arg Ile Thr  
 370 375 380  
 Val Phe Val Phe Gly Ala Ser Ala Thr Ala Met Ala Leu Leu Thr Lys  
 385 390 395 400  
 Thr Val Tyr Gly Leu Trp Tyr Leu Ser Ser Asp Leu Val Tyr Ile Val  
 405 410 415  
 Ile Phe Pro Gln Leu Leu Cys Val Leu Phe Val Lys Gly Thr Asn Thr  
 420 425 430  
 Tyr Gly Ala Val Ala Gly Tyr Val Ser Gly Leu Phe Leu Arg Ile Thr  
 435 440 445  
 Gly Gly Glu Pro Tyr Leu Tyr Leu Gln Pro Leu Ile Phe Tyr Pro Gly  
 450 455 460  
 Tyr Tyr Pro Asp Asp Asn Gly Ile Tyr Asn Gln Lys Phe Pro Phe Lys  
 465 470 475 480  
 Thr Leu Ala Met Val Thr Ser Phe Leu Thr Asn Ile Cys Ile Ser Tyr  
 485 490 495  
 Leu Ala Lys Tyr Leu Phe Glu Ser Gly Thr Leu Pro Pro Lys Leu Asp  
 500 505 510  
 Val Phe Asp Ala Val Val Ala Arg His Ser Glu Glu Asn Met Asp Lys  
 515 520 525  
 Thr Ile Leu Val Lys Asn Glu Asn Ile Lys Leu Asp Glu Leu Ala Leu  
 530 535 540  
 Val Lys Pro Arg Gln Ser Met Thr Leu Ser Ser Thr Phe Thr Asn Lys  
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 Glu Ala Phe Leu Asp Val Asp Ser Ser Pro Glu Gly Ser Gly Thr Glu  
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 Asp Asn Leu Gln  
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 <212> PRT  
 <213> Homo sapiens

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 Gly Ser Ala Glu Glu Arg Ser Glu Ala Ile Ile Val Gly Gly Arg Asp  
 35 40 45  
 Ile Gly Leu Leu Val Gly Gly Phe Thr Met Thr Ala Thr Trp Val Gly  
 50 55 60  
 Gly Gly Tyr Ile Asn Gly Thr Ala Glu Ala Val Tyr Val Pro Gly Tyr  
 65 70 75 80  
 Gly Leu Ala Trp Ala Gln Ala Pro Ile Gly Tyr Ser Leu Ser Leu Ile  
 85 90 95  
 Leu Gly Gly Leu Phe Phe Ala Lys Pro Met Arg Ser Lys Gly Tyr Val  
 100 105 110

Thr	Met	Leu	Asp	Pro	Phe	Gln	Gln	Ile	Tyr	Gly	Lys	Arg	Met	Gly	Gly		
		115					120					125					
Leu	Leu	Phe	Ile	Pro	Ala	Leu	Met	Gly	Glu	Met	Phe	Trp	Ala	Ala	Ala		
	130					135					140						
Ile	Phe	Ser	Ala	Leu	Gly	Ala	Thr	Ile	Ser	Val	Ile	Ile	Asp	Val	Asp		
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Met	His	Ile	Ser	Val	Ile	Ile	Ser	Ala	Leu	Ile	Ala	Thr	Leu	Tyr	Thr		
				165					170					175			
Leu	Val	Gly	Gly	Leu	Tyr	Ser	Val	Ala	Tyr	Thr	Asp	Val	Val	Gln	Leu		
			180					185					190				
Phe	Cys	Ile	Phe	Val	Gly	Leu	Trp	Ile	Ser	Val	Pro	Phe	Ala	Leu	Ser		
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His	Pro	Ala	Val	Ala	Asp	Ile	Gly	Phe	Thr	Ala	Val	His	Ala	Lys	Tyr		
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Gln	Lys	Pro	Trp	Leu	Gly	Thr	Val	Asp	Ser	Ser	Glu	Val	Tyr	Ser	Trp		
225					230					235					240		
Leu	Asp	Ser	Phe	Leu	Leu	Leu	Met	Leu	Gly	Gly	Ile	Pro	Trp	Gln	Ala		
				245					250					255			
Tyr	Phe	Gln	Arg	Val	Leu	Ser	Ser	Ser	Ser	Ala	Thr	Tyr	Ala	Gln	Val		
			260					265					270				
Leu	Ser	Phe	Leu	Ala	Ala	Phe	Gly	Cys	Leu	Val	Met	Ala	Ile	Pro	Ala		
		275					280					285					
Ile	Leu	Ile	Gly	Ala	Ile	Gly	Ala	Ser	Thr	Asp	Trp	Asn	Gln	Thr	Ala		
	290					295					300						
Tyr	Gly	Leu	Pro	Asp	Pro	Lys	Thr	Thr	Glu	Glu	Ala	Asp	Met	Ile	Leu		
305					310					315					320		
Pro	Ile	Val	Leu	Gln	Tyr	Leu	Cys	Pro	Val	Tyr	Ile	Ser	Phe	Phe	Gly		
				325					330					335			
Leu	Gly	Ala	Val	Ser	Ala	Ala	Val	Met	Ser	Ser	Ala	Asp	Ser	Ser	Ile		
			340					345					350				
Leu	Ser	Ala	Ser	Ser	Met	Phe	Ala	Arg	Asn	Ile	Tyr	Gln	Leu	Ser	Phe		
		355					360					365					
Arg	Gln	Asn	Ala	Ser	Asp	Lys	Glu	Ile	Val	Trp	Val	Met	Arg	Ile	Thr		
	370					375						380					
Val	Phe	Val	Phe	Gly	Ala	Ser	Ala	Thr	Ala	Met	Ala	Leu	Leu	Thr	Lys		
385					390					395					400		
Thr	Val	Tyr	Gly	Leu	Trp	Tyr	Leu	Ser	Ser	Asp	Leu	Val	Tyr	Ile	Val		
				405					410					415			

Ile Phe Pro Gln Leu Leu Cys Val Leu Phe Val Lys Gly Thr Asn Thr  
420 425 430

Tyr Gly Ala Val Ala Gly Tyr Val Ser Gly Leu Phe Leu Arg Ile Thr  
435 440 445

Gly Gly Glu Pro Tyr Leu Tyr Leu Gln Pro Leu Ile Phe Tyr Pro Gly  
450 455 460

Tyr Tyr Pro Asp Asp Asn Gly Ile Tyr Asn Gln Lys Phe Pro Phe Lys  
465 470 475 480

Thr Leu Ala Met Val Thr Ser Phe Leu Thr Asn Ile Cys Ile Ser Tyr  
485 490 495

Leu Ala Lys Tyr Leu Phe Glu Ser Gly Thr Leu Pro Pro Lys Leu Asp  
500 505 510

Val Phe Asp Ala Val Val Ala Arg His Ser Glu Glu Asn Met Asp Lys  
515 520 525

Thr Ile Leu Val Lys Asn Glu Asn Ile Lys Leu Asp Glu Leu Ala Leu  
530 535 540

Val Lys Pro Arg Gln Ser Met Thr Leu Ser Ser Thr Phe Thr Asn Lys  
545 550 555 560

Glu Ala Phe Leu Asp Val Asp Ser Ser Pro Glu Gly Ser Gly Thr Glu  
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Asp Asn Leu Gln  
580

<210> 12

<211> 580

<212> PRT

<213> Homo sapiens

<400> 12

Met Ala Phe His Val Glu Gly Leu Ile Ala Ile Ile Val Phe Tyr Leu  
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Gly Ser Ala Glu Glu Arg Ser Glu Ala Ile Ile Val Gly Gly Arg Asp  
35 40 45

Ile Gly Leu Leu Val Gly Gly Phe Thr Met Thr Ala Thr Trp Val Gly  
50 55 60

Gly Gly Tyr Ile Asn Gly Thr Ala Glu Ala Val Tyr Val Pro Gly Tyr  
65 70 75 80

Gly Leu Ala Trp Ala Gln Ala Pro Ile Gly Tyr Ser Leu Ser Leu Ile

85

90

95

Leu Gly Gly Leu Phe Phe Ala Lys Pro Met Arg Ser Lys Gly Tyr Val  
 100 105 110

Thr Met Leu Asp Pro Phe Gln Gln Ile Tyr Gly Lys Arg Met Gly Gly  
 115 120 125

Leu Leu Phe Ile Pro Ala Leu Met Gly Glu Met Phe Trp Ala Ala Ala  
 130 135 140

Ile Phe Ser Ala Leu Gly Ala Thr Ile Ser Val Ile Ile Asp Val Asp  
 145 150 155 160

Met His Ile Ser Val Ile Ile Ser Ala Leu Ile Ala Thr Leu Tyr Thr  
 165 170 175

Leu Val Gly Gly Leu Tyr Ser Val Ala Tyr Thr Asp Val Val Gln Leu  
 180 185 190

Phe Cys Ile Phe Val Gly Leu Trp Ile Ser Val Pro Phe Ala Leu Ser  
 195 200 205

His Pro Ala Val Ala Asp Ile Gly Phe Thr Ala Val His Ala Lys Tyr  
 210 215 220

Gln Lys Pro Trp Leu Gly Thr Val Asp Ser Ser Glu Val Tyr Ser Trp  
 225 230 235 240

Leu Asp Ser Phe Leu Leu Met Leu Gly Gly Ile Pro Trp Gln Ala  
 245 250 255

Tyr Phe Gln Arg Val Leu Ser Ser Ser Ser Ala Thr Tyr Ala Gln Val  
 260 265 270

Leu Ser Phe Leu Ala Ala Phe Gly Cys Leu Val Met Ala Ile Pro Ala  
 275 280 285

Ile Leu Ile Gly Ala Ile Gly Ala Ser Thr Asp Trp Asn Gln Thr Ala  
 290 295 300

Tyr Gly Leu Pro Asp Pro Lys Thr Thr Glu Glu Ala Asp Met Ile Leu  
 305 310 315 320

Pro Ile Val Leu Gln Tyr Leu Cys Pro Val Tyr Ile Ser Phe Phe Gly  
 325 330 335

Leu Gly Ala Val Ser Ala Ala Val Met Ser Ser Ala Asp Ser Ser Ile  
 340 345 350

Leu Ser Ala Ser Ser Met Phe Ala Arg Asn Ile Tyr Gln Leu Ser Phe  
 355 360 365

Arg Gln Asn Ala Ser Asp Lys Glu Ile Val Trp Val Met Arg Ile Thr  
 370 375 380

Val Phe Val Phe Gly Ala Ser Ala Thr Ala Met Ala Leu Leu Thr Lys

385                      390                      395                      400  
 Thr Val Tyr Gly Leu Trp Tyr Leu Ser Ser Asp Leu Val Tyr Ile Val  
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 Ile Phe Pro Gln Leu Leu Cys Val Leu Phe Val Lys Gly Thr Asn Thr  
                          420                      425                      430  
 Tyr Gly Ala Val Ala Gly Tyr Val Ser Gly Leu Phe Leu Arg Ile Thr  
                          435                      440                      445  
 Gly Gly Glu Pro Tyr Leu Tyr Leu Gln Pro Leu Ile Phe Tyr Pro Gly  
                          450                      455                      460  
 Tyr Tyr Pro Asp Asp Asn Gly Ile Tyr Asn Gln Lys Phe Pro Phe Lys  
 465                      470                      475                      480  
 Thr Leu Ala Met Val Thr Ser Phe Leu Thr Asn Ile Cys Ile Ser Tyr  
                          485                      490                      495  
 Leu Ala Lys Tyr Leu Phe Glu Ser Gly Thr Leu Pro Pro Lys Leu Asp  
                          500                      505                      510  
 Val Phe Asp Ala Val Val Ala Arg His Ser Glu Glu Asn Met Asp Lys  
                          515                      520                      525  
 Thr Ile Leu Val Lys Asn Glu Asn Ile Lys Leu Asp Glu Leu Ala Leu  
                          530                      535                      540  
 Val Lys Pro Arg Gln Ser Met Thr Leu Ser Ser Thr Phe Thr Asn Lys  
 545                      550                      555                      560  
 Glu Ala Phe Leu Asp Val Asp Ser Ser Pro Glu Gly Ser Gly Thr Glu  
                          565                      570                      575  
 Asp Asn Leu Gln  
                          580

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 <211> 175590  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
                          Primer

<220>  
 <221> modified base  
 <222> (1247)..(161183)  
 <223> N = A, C, G or T/U

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 agctagaaaa ccccaaatg tttggagatt aacaacacac ttctcaataa cacatgggtc        120  
 aaagaagaaa tttcaagaaa aatttttaaaa gatatttgaag taaaagaaaa tgagaacaca        180



gcttgtcaaa	atttgtgaga	tgacagcaaaa	gcagtgcctta	taagaaaatc	tatatcactg	240
aatgcatgta	cagtcacgta	taacaatgac	ggggatacat	tgtgagaaat	gcaccttttag	300
gtaattttgt	gtgaatgtta	tagaatgtat	cttcacaaac	ttatatgggc	tagcctacta	360
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Leu Ile Phe Leu Val Gly Ile Trp Ala Ala Trp Lys Thr Lys Asn Ser
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Thr Met Leu Asp Pro Phe Lys Gln Ile Tyr Gly Lys Arg Met Gly Gly
115 120 125

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Phe Cys Ile Phe Ile Gly Leu Trp Ile Ser Val Pro Phe Ala Leu Ser	
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His Pro Ala Val Thr Asp Ile Gly Phe Thr Ala Val His Ala Lys Tyr	
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Tyr Phe Gln Arg Val Leu Ser Ser Ser Ser Ala Thr Tyr Ala Gln Val	
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Thr Val Tyr Gly Leu Trp Tyr Leu Ser Asp Leu Val Tyr Ile Ile	
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Thr Ile Leu Val Arg Asn Glu Asn Ile Lys Leu Asn Glu Leu Ala Pro	
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Val Lys Pro Arg Gln Ser Leu Thr Leu Ser Ser Thr Phe Thr Asn Lys	
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Leu	Ser	Phe	Leu	Ala	Ala	Phe	Gly	Cys	Leu	Val	Met	Ala	Leu	Pro	Ala	275	280	285	
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Tyr	Gly	Tyr	Pro	Asp	Pro	Lys	Thr	Lys	Glu	Glu	Ala	Asp	Met	Ile	Leu	305	310	315	320
Pro	Ile	Val	Leu	Gln	Tyr	Leu	Cys	Pro	Val	Tyr	Ile	Ser	Phe	Phe	Gly	325	330	335	
Leu	Gly	Ala	Val	Ser	Ala	Ala	Val	Met	Ser	Ser	Ala	Asp	Ser	Ser	Ile	340	345	350	
Leu	Ser	Ala	Ser	Ser	Met	Phe	Ala	Arg	Asn	Ile	Tyr	Gln	Leu	Ser	Phe	355	360	365	
Arg	Gln	Asn	Ala	Ser	Asp	Lys	Glu	Ile	Val	Trp	Val	Met	Arg	Ile	Thr	370	375	380	
Val	Leu	Val	Phe	Gly	Ala	Ser	Ala	Thr	Ala	Met	Ala	Leu	Leu	Thr	Lys	385	390	395	400
Thr	Val	Tyr	Gly	Leu	Trp	Tyr	Leu	Ser	Ser	Asp	Leu	Val	Tyr	Ile	Ile				

				405					410				415				
Ile	Phe	Pro	Gln	Leu	Leu	Cys	Val	Leu	Phe	Ile	Lys	Gly	Thr	Asn	Thr		
			420						425				430				
Tyr	Gly	Ala	Val	Ala	Gly	Tyr	Ile	Phe	Gly	Leu	Phe	Leu	Arg	Ile	Thr		
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Gly	Gly	Glu	Pro	Tyr	Leu	Tyr	Leu	Gln	Pro	Leu	Ile	Phe	Tyr	Pro	Gly		
	450				455						460						
Tyr	Tyr	Ser	Asp	Lys	Asn	Gly	Ile	Tyr	Asn	Gln	Arg	Phe	Pro	Phe	Lys		
465				470					475						480		
Thr	Leu	Ser	Met	Val	Thr	Ser	Phe	Phe	Thr	Asn	Ile	Cys	Val	Ser	Tyr		
			485						490					495			
Leu	Ala	Lys	Tyr	Leu	Phe	Glu	Ser	Gly	Thr	Leu	Pro	Pro	Lys	Leu	Asp		
		500						505					510				
Val	Phe	Asp	Ala	Val	Val	Ala	Arg	His	Ser	Glu	Glu	Asn	Met	Asp	Lys		
	515					520						525					
Thr	Ile	Leu	Val	Arg	Asn	Glu	Asn	Ile	Lys	Leu	Asn	Glu	Leu	Ala	Pro		
	530				535						540						
Val	Lys	Pro	Arg	Gln	Ser	Leu	Thr	Leu	Ser	Ser	Thr	Phe	Thr	Asn	Lys		
545				550					555					560			
Glu	Ala	Leu	Leu	Asp	Val	Asp	Ser	Ser	Pro	Glu	Gly	Ser	Gly	Thr	Glu		
			565					570						575			
Asp	Asn	Leu	Gln														
		580															

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<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

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